

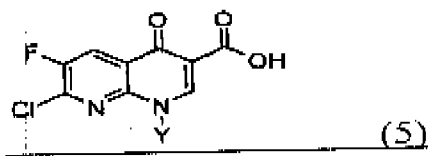
EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kay Chang on 3/25/09.

The application has been amended as follows:

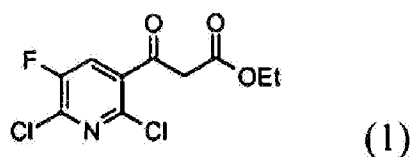
1. (Currently Amended) A process for preparing 1,8-naphthyridine-3-carboxylic acid compound of the following formula (5)



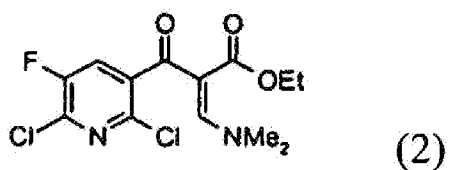
in which

Y represents straight-chain, branched or cyclic alkyl, having 1 to 5 carbon atoms, and unsubstituted or substituted by halogen, said process
comprising:

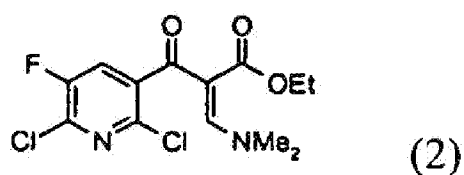
the first step a) the compound of the following formula (1),



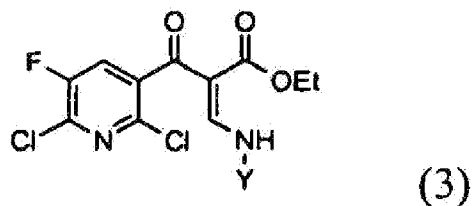
is reacted with dimethylformamide dialkylacetal of formula $\text{Me}_2\text{NCH}(\text{OR})_2$ (wherein R represents straight-chain, branched or cyclic alkyl having 1 to 9 carbon atoms, or represents benzyl) in a solvent in the presence of acid catalyst to prepare the compound of the following formula (2),



the second step b) the resulting reaction mixture of the following formula (2),



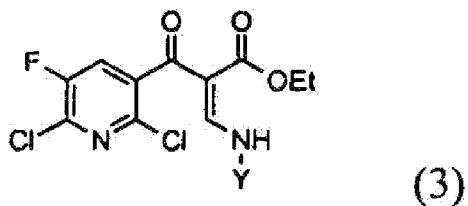
is reacted with amine of formula YNH_2 to prepare the compound of the following formula (3),



in which

~~Y represents straight chain, branched or cyclic alkyl, having 1 to 5 carbon atoms, and unsubstituted or substituted by halogen, or represents phenyl unsubstituted or substituted by halogen, is defined as above,~~

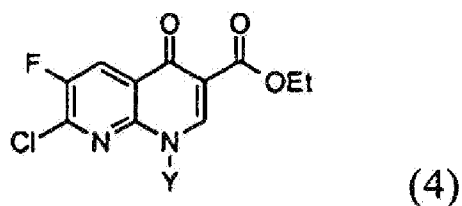
the third step c) the resulting compound of the following formula (3),



in which

Y is as defined above,

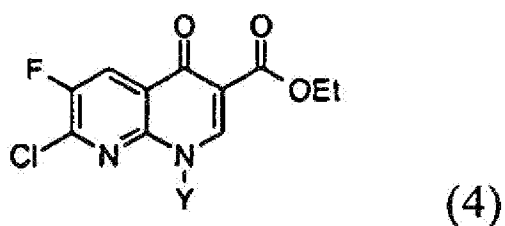
is cyclized in the presence of quaternary ammonium salt and a base to prepare 1,8-naphthyridine-3-carboxylic acid ester of the following formula (4),



in which

Y is as defined above, and

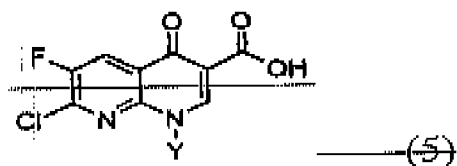
in the fourth step d) the resulting compound of the following formula (4),



in which

Y is as defined above,

is hydrolyzed in the presence of an acid to prepare 1,8-naphthyridine-3-carboxylic acid
~~derivative compound of the following~~ said formula (5),



~~in which~~

~~Y is as defined above,~~ said process is characterized by a one pot operation of the above
steps using a single solvent system without intermediate isolation.

Claims 1-10 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Covington whose telephone number is (571) 272-0681. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres at telephone number (571) 272-0867.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/R. C./
Examiner, Art Unit 1625

/Janet L. Andres/
Supervisory Patent Examiner,
Art Unit 1625